



# **Marketplace Technical Foundation Of Furniro**

Furniro Website

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# Marketplace Technical Foundation of Furniro

## Overview

Furniro is a modern furniture marketplace that simplifies shopping with an intuitive platform for discovering, customizing, and purchasing furniture. The app delivers a seamless user experience with live search, advanced filtering, and a responsive design.

## Features

- Dynamic Search & Filters: Quickly find furniture by category, price, and material.
- Responsive Design: Optimized for desktops, tablets, and mobile devices.
- Custom Options: Personalize furniture with size, color, and material choices.
- Cart Management: Real-time cart updates and price calculations.

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## Third-Party Integrations

- Secure payments via Stripe/PayPal.
- Real-time shipping estimates with shipment APIs.
- Admin Dashboard: Manage products, orders, and users effectively.

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## Problems Solved

- Centralized platform for efficient furniture discovery.
- Enhanced customization for personalized purchases.
- Simplified checkout with integrated payments and shipping.

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## Benefits

- Convenience: Browse, customize, and shop from anywhere.
- Transparency: Detailed product information and live shipment tracking.
- Scalability: Designed to grow with new features and categories.

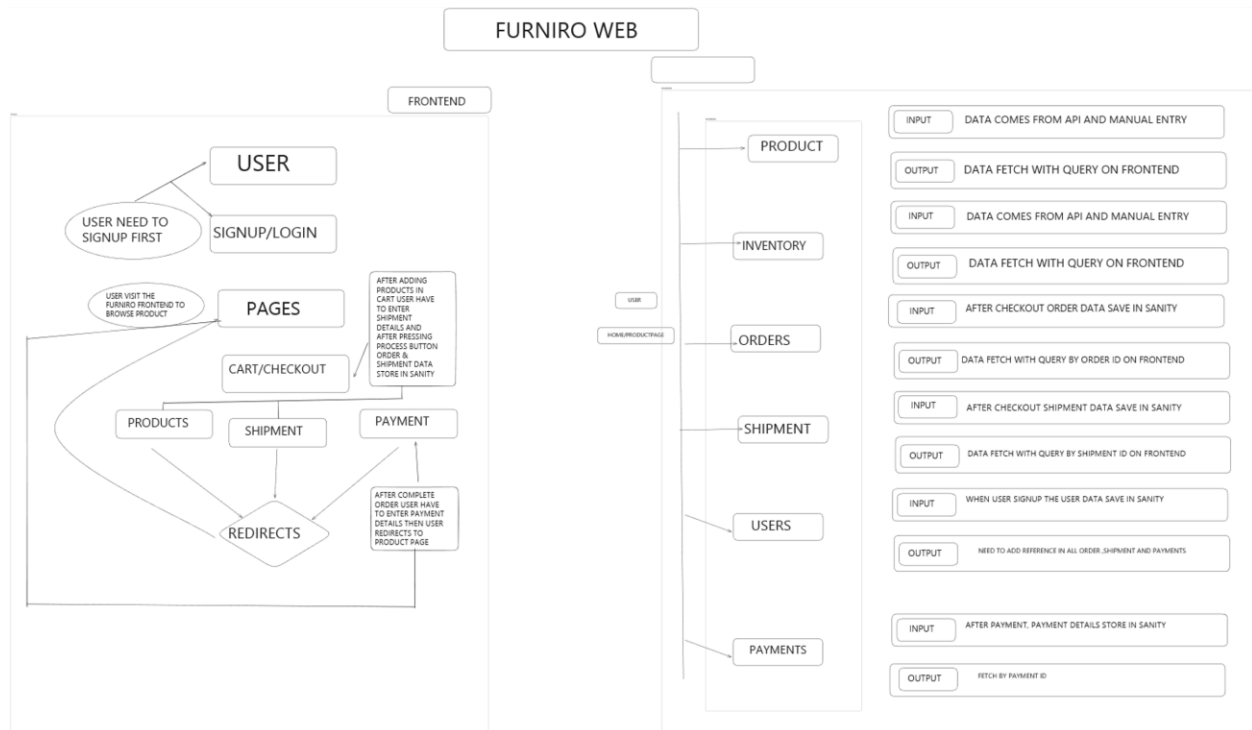
Furniro aims to redefine furniture shopping by offering a streamlined, user-friendly experience.

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## Pages

- Home Page
- Contact Page
- Login/Signup Page
- Blog Page
- Shop Page
- Dynamic Product Page
- Cart Page
- Account Page
- Wishlist Page
- Checkout Page

## WorkfLow



## Technical Architecture

### Frontend (Next.js)

The frontend of the Furniro marketplace focuses on delivering a seamless user experience through a responsive and user-friendly interface.

- **Essential Features:**
  - Home Page: Showcase featured products and categories.
  - Product Listing: Display all available products with search and filter options.
  - Product Details: Detailed view with customization options (color, size, etc.).
  - Cart Page: Real-time cart management with price calculations.
  - Checkout Page: Collect user details and integrate payment options.
  - Order Confirmation: Display order summary and tracking details.
- **Additional Features:**
  - Live Search and Filters: Allow users to search and filter products dynamically.
  - Fully Responsive Design: Ensures compatibility across mobile, tablet, and desktop devices.
  - Interactive UI/UX: Modern, engaging design with intuitive navigation.

### Backend

The backend of the Furniro marketplace is powered by Sanity CMS and additional tools to handle data efficiently and provide secure services.

- **Sanity CMS:**
  - Manage product data, including titles, descriptions, prices, images, and categories.
  - Store customer details such as names, addresses, and contact information.
  - Record and manage order details, including products, quantities, and statuses.
- **Backend Functionalities:**
  - User Authentication: Secure login and registration for customers.
  - Payment Handling: Process transactions securely through integrated APIs.
  - Order Tracking: Manage order statuses and provide tracking details.

### Third-Party API Integrations

To enhance the functionality and provide a smooth shopping experience, the Furniro marketplace integrates the following APIs:

1. **Payment Gateway APIs:**
  - **Stripe:** For secure and reliable payment processing.
  - Features: Accept multiple payment methods, handle refunds, and provide transaction receipts.
2. **Shipment APIs:**
  - Real-time shipment tracking and delivery status updates.
  - Features: Calculate shipping costs based on user location and delivery speed.
3. **Product APIs:**
  - Use external APIs for populating product data dynamically in Sanity
  - Features: Fetch and display product details and categories efficiently from Sanity.

### Tools and Technologies

- **Frontend:**
  - Framework: Next.js
  - Language: TypeScript
  - Styling: Tailwind CSS
  - State Management: Context API
  - Responsive Design: Flexbox, Grid Layout

- **Backend:**
  - CMS: Sanity CMS
  - APIs: RESTful APIs for dynamic content management
  - Security: Clerk for user authentication

## Testing & Deployment

Test the website for responsiveness and functionality.

Deploy using platforms like Vercel.

## Final Deliverable

A fully functional, user-friendly furniture website with dynamic features and integrated APIs.

## API Endpoints Documentation

Endpoint Name	Method	Description	Payload	Response Example
/products	GET	Fetch all available products.	N/A	[ { "id": 1, "name": "Wooden Chair", "price": 500, "stock": 20, "image": "url", "category": "Furniture " } ]
/product/:id	GET	Fetch details of a specific product by ID.	N/A	{ "id": 1, "name": "Wooden Chair", "price": 500, "stock": 20, "image": "url", "category": "Furniture " }
/orders	POST	Create a new order.	{ "customerInfo": { "name": "John", "email": "john@example.com", "phone": "1234567890" }, "orderDetails": [ { "productId": 1, "quantity": 2 } ], "paymentStatus": "Paid" }	{ "orderId": 101, "status": "Success", "message": "Order created successfully" }

/order/:id	GET	Fetch status and details of an order by ID.	N/A	{ "orderId": 101, "status": "In Transit", "expectedDeliveryDate": "2025-01-20", "items": [...] }
/categories	GET	Fetch all product categories.	N/A	[ { "id": 1, "name": "Furniture" }, { "id": 2, "name": "Chairs" } ]
/shipment	GET	Track the status of an order using a third-party API.	{ "shipmentId": 201, "orderId": 101 }	{ "status": "In Transit", "ETA": "15 mins" }
/checkout	POST	Process payment and finalize the order.	{ "cartId": 123, "paymentMethod": "Credit Card", "paymentDetails": { "cardNumber": "xxxx", "expiryDate": "xx/xx" } }	{ "status": "Success", "orderId": 101, "message": "Payment processed and order placed successfully." }